

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the present application:

**Listing of Claims:**

1. (Currently Amended) A black composition comprising as indispensable components a titanium nitride oxide, a resin and a solvent; wherein X-ray intensity ratios R<sub>1</sub> and R<sub>2</sub> represented by the Equations (1) and (2) below, respectively, satisfy the relationships represented by Formulae (3) and (4) below:

$$R_1 = I_3 / \{I_3 + 1.8(I_1 + 1.8I_2)\} \quad (1)$$

$$R_2 = I_2 / I_1 \quad (2)$$

$$R_1 > 0.70 \quad (3)$$

$$0.85 < R_2 < 1.80 \quad (4)$$

wherein I<sub>1</sub> represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ, determined by using CuKα line as the X-ray source, is 25° to 26°,

I<sub>2</sub> represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 27° to 28°,

I<sub>3</sub> represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction 2θ is 36° to 38°, and

wherein a black coating film obtained from said black composition has an optical density (OD value) of not less than 4.4 per 1  $\mu\text{m}$  of film thickness,

wherein the transmittance of i-ray through a resin black matrix obtained from said black composition is more than 0.2% when the OD value is 2.0, and

wherein the minimum exposure energy required for photo-curing is not more than 60 mJ/cm<sup>2</sup>.

**2. (Original)** The black composition according to claim 1, wherein said X-ray intensity ratio R<sub>1</sub> is not less than 0.80.

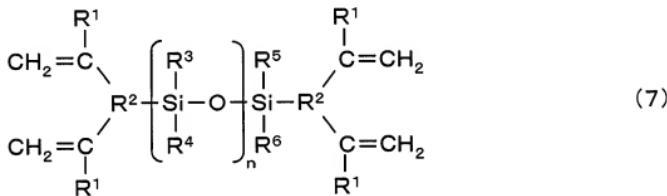
**3. (Previously Presented)** The black composition according to claim 1, wherein said solvent has a boiling point of 120°C to 180°C, and a viscosity of 3 mPa·s to 10 mPa·s.

**4. (Previously Presented)** The black composition according to claim 1, wherein said resin is at least one selected from the group consisting of an acrylic resin and a polyimide resin.

**5. (Previously Presented)** The black composition according to claim 1, further comprising an organosilane hydrolysis condensate.

**6. (Previously Presented)** The black composition according to claim 1, further comprising a compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group.

**7. (Previously Presented)** The black composition according to claim 6, wherein said compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group has the structure represented by the following Formula (7):



wherein each R<sup>1</sup> independently represents hydrogen or alkyl group; each R<sup>2</sup> independently represents an organic group containing amide bond, imide bond, ester bond or urethane bond; R<sup>3</sup> to R<sup>6</sup> independently represent alkyl group; and n represents an integer of 1 to 3.

**8. (Previously Presented)** The black composition according to claim 1, wherein the weight ratio of said titanium nitride oxide to said resin is within the range between 75/25 and 60/40.

9. **(Previously Presented)** The black composition according to claim 1, further comprising carbon black.

10. **(Cancelled)**

11. **(Previously Presented)** A black composition comprising as indispensable components a titanium nitride oxide and a resin; wherein X-ray intensity ratios  $R_1$  and  $R_2$  represented by the Equations (1) and (2) below, respectively, satisfy the relationships represented by Formulae (3) and (4) below:

$$R_1 = I_3 / \{I_3 + 1.8(I_1 + 1.8I_2)\} \quad (1)$$

$$R_2 = I_2 / I_1 \quad (2)$$

$$R_1 > 0.70 \quad (3)$$

$$0.85 < R_2 < 1.80 \quad (4)$$

wherein  $I_1$  represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction  $2\theta$ , determined by using  $CuK\alpha$  line as the X-ray source, is  $25^\circ$  to  $26^\circ$ ,  $I_2$  represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction  $2\theta$  is  $27^\circ$  to  $28^\circ$ ,  $I_3$  represents the maximum diffraction intensity of the titanium nitride oxide when the angle of diffraction  $2\theta$  is  $36^\circ$  to  $38^\circ$ ; and wherein the transmittance of i-ray when the optical density (OD value) is 2.0 is more than 0.2%.

12. (**Original**) The black coating composition according to claim 11, wherein said X-ray intensity ratio  $R_1$  is not less than 0.80.

13. (**Previously Presented**) The black coating composition according to claim 11, wherein said resin is at least one selected from the group consisting of an acrylic resin and a polyimide resin.

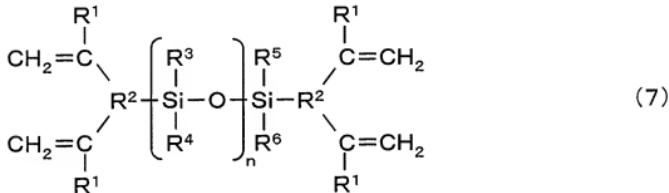
14. (**Previously Presented**) The black coating composition according to claim 11, wherein the weight ratio of said titanium nitride oxide to said resin is within the range between 75/25 and 60/40.

15. (**Previously Presented**) The black coating composition according to claim 11, which has an optical density (OD value) of not less than 4.4 per 1  $\mu\text{m}$  of film thickness.

16. (**Cancelled**).

17. (**Previously Presented**) The black coating composition according to claim 11, further comprising a compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group.

18. (Previously Presented) The black coating composition according to claim 17, wherein said compound having a siloxane bond and a carbon-carbon double bond in a single molecule and having no silanol group has the structure represented by the following Formula (7):



wherein each R<sup>1</sup> independently represents hydrogen or alkyl group; each R<sup>2</sup> independently represents an organic group containing amide bond, imide bond, ester bond or urethane bond; R<sup>3</sup> to R<sup>6</sup> independently represent alkyl group; and n represents an integer of 1 to 3.

19. (Previously Presented) The black coating composition according to claim 11, further comprising carbon black.

20. (Previously Presented) A resin black matrix obtained from said black coating composition according to claim 11.

21. (Original) A color filter for liquid crystal displays, which color filter comprises said resin black matrix according to claim 20.

22. (**Original**) A liquid crystal display comprising said color filter for liquid crystal displays, according to claim 21.

23. (**Previously Presented**) A resin black matrix obtained by exposing and developing a black coating film obtained by coating said black composition according to claim 1 on a substrate.

24. (**Previously Presented**) A color filter for liquid crystal displays, which color filter comprises said resin black matrix according to claim 23.

25. (**Previously Presented**) A liquid crystal display comprising said color filter for liquid crystal displays, according to claim 24.

26. (**Previously Presented**) The black composition according to claim 1, further comprising a photopolymerizable monomer and a photoinitiator.